The drop table holding the test sample begins to move. The desired falling posture can be set when using a jig.

The air cylinder lowers the drop table at a speed of 1G or greater while the latch disengages, causing the drop table to move toward the base unit.

The test sample falls freely while maintaining the preset falling posture.

**DTS-50**

An air-driven cylinder and tension spring function together to generate a speed that exceeds that of the free falling test sample, causing the drop table to move in a perpendicular direction and initiating the drop of the test sample. This system allows for a dramatic improvement in the falling posture of the test sample and a faster testing cycle.

*Main Features…*

- Lowered operating noise for operating the controls and running the machine
- Allows for testing of a wider range of test samples in a shorter period of time compared to existing models
- Allows for drop testing at the lowest possible drop height of 200mm (100mm when using a jig)
- Allows for easy testing of the dropped object, either at an angle or on its edge, with the use of a jig
- Easily operated by the use of a hand held remote controller

**Accurate drop movement**

- The drop table holding the test sample begins to move.
- The desired falling posture can be set when using a jig.

- The air cylinder lowers the drop table at a speed of 1G or greater while the latch disengages, causing the drop table to move toward the base unit.

- The test sample falls freely while maintaining the preset falling posture.

**Maximun weight of the test sample**

50kg

**Drop Height Range**

200(100) mm ~ 1200 mm

**Maximum dimensions of the test sample**

D510, H900, W900 mm

**Minimum drop height**

200 mm (100 mm optional)

**Test machine dimensions when installed**

920×1,480 mm

**Test sample**

Test sample

**Table**

Test sample

**Maximum dimensions of the test sample**

D510, H900, W900 mm

**Maximum weight of the test sample**

50kg

**Accurate drop movement**

The drop table holding the test sample begins to move. The desired falling posture can be set when using a jig.

The air cylinder lowers the drop table at a speed of 1G or greater while the latch disengages, causing the drop table to move toward the base unit.

The test sample falls freely while maintaining the preset falling posture.
The drop tester for packaged freight with a minimum drop height of 200mm plays an active role in a variety of product development sites.

The desired falling posture can be set when using a jig (optional).

**Standard drop test**

- **Drop test for dropping onto the edge**
- **Drop test for dropping at an angle**

**Dimension**

<table>
<thead>
<tr>
<th>Top view (Machine dimensions after installation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[See source for numbers]</td>
</tr>
</tbody>
</table>

**Test Sample**

- Maximum Dimensions: D510, H900, W900

**Top view**

- Test Sample
- Maximum Dimensions: D510, H900, W900

**Side view**

- Dimension
- Test Sample: Maximum Dimensions: D510, H900, W900

**Specification**

- Test sample-maximum size: W900mm x D510mm x H900mm
- Test sample-maximum weight: 50kg
- Drop height range: 200mm (100mm with optional jig)~1,200mm
- *Drop height when custom made: 1,500/1,800 mm options (Ask for details)
- Machine dimensions after installation: Approx. W1,000mm x D1,300mm
- Test machine dimensions/weight: Approx. W920mm x D1,480mm x H1,975mm / approx.300kg
- Electrical power supply: AC 200V, 3-phase, 5A
- Air pressure supply: 0.6MPa or more
- Usage environment temperature range: 5°C~35°C

**Option**

- Drop table jig, falling posture holding jig, mat switch, safety fence, safety cover, photoelectric sensor, indicator light

**SM-500 Acceleration Measurement and Analysis Shock Manager System**

By combining the DTS-50 Drop Tester and the SM-500 Acceleration Measurement and Analysis Shock Manager System (sold separately), analysis and measurement of the drop/impact mechanism is made easier. The SM-500 is effective in correcting overlapped three-directional acceleration and measuring the amount of displacement for the development of more practical packaging methods and realization of lower cost shock testing equipment.